



DEPARTMENT OF THE NAVY
OFFICE OF THE ASSISTANT SECRETARY
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1000 NAVY PENTAGON
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4 May 2005

MEMORANDUM FOR DISTRIBUTION

Subj: DON ENVIRONMENTAL REQUIREMENTS AND GOALS (ER&G) FOR NAVY
SYSTEMS ACQUISITION

Encl: (1) OPNAV(N4) ER&G memo of April 20, 2005 w/attachment

Enclosure (1) establishes environmental requirements and goals for DON systems acquisition. It is provided to ensure that DON acquisition organizations integrate these goals into their acquisition management systems and the acquisition system complies with these requirements. Compliance with the ER&G should be included during system reviews.

My ER&G acquisition system point of contact is Mr. Bill McAninch at (703) 693-2935 or by e-mail: william.mcaninch@navy.mil.

A handwritten signature in black ink, appearing to read "MJB", is positioned above the typed name of the signatory.

M. J. BROWN
Rear Admiral, SC, U.S. Navy
Deputy Assistant Secretary of the Navy
(Acquisition Management)

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IN REPLY REFER TO
5090
Ser N4/5U890259
20 Apr 05

MEMORANDUM FOR ASSISTANT SECRETARY OF THE NAVY (RESEARCH,
DEVELOPMENT, AND ACQUISITION)

Subj: ENVIRONMENTAL REQUIREMENTS AND GOALS FOR NAVY SYSTEMS
ACQUISITION

Ref: (a) CNO(N4) memorandum N45/217-99 of 25 Mar 99
(b) DoD Instruction 5000.2 of 12 May 03
(c) SECNAV Instruction 5000.2C of 19 Nov 04
(d) USD(AT&L) Memorandum of 23 Sep 04

Encl: (1) Strategic Environmental Goals in the Systems
Acquisition Process

1. Effective integration of environmental requirements early in the design and development of a weapon system provides a cost-effective way to support environmental compliance and optimize user training, performance, safety, and system sustainability. Reference (a) is hereby cancelled and superseded by enclosure (1) which provides revised and updated environmental goals. Achievement of the enclosed goals will assist Program Managers (PMs) in complying with references (b), (c), and (d), and minimize environmental impacts at Navy installations and ranges.

2. I request your support in ensuring that each acquisition system under your cognizance integrates these updated strategic goals into their system acquisition management protocols.

3. My point of contact is Mr. David Price, N451, 703-602-2550, david.g.price@navy.mil.

J. D. McCARTHY
Vice Admiral, Supply Corps
United States Navy
Director, Material Readiness
and Logistics

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Enclosure (1)

Strategic Environmental Goals in the Systems Acquisition Process

- Design systems that avoid and/or minimize, to the maximum extent feasible, requirements for the use of materials that pose environmental risks throughout the system's life cycle. These chemicals/materials include, but are not limited to:
 - Class I and Class II ozone-depleting compounds
 - Compounds which contribute to greenhouse gas effects
 - Environmental Protection Agency (EPA) Industrial Toxic Chemicals
 - EPA and Occupational Safety and Health Administration (OSHA) hazardous materials
 - EPA designated volatile organic compounds
 - National Emission Standard for Hazardous Air Pollutants (NESHAPS) designated hazardous air pollutants (HAPs)
- Conduct appropriate level of environmental planning early in the acquisition process. Prepare quality and consistent National Environmental Policy Act (NEPA) and Executive Order 12114 analyses and documentation to support the decision making process for science and technology projects and systems acquisition programs throughout the life cycle.
- Design and plan for reuse/recycling/disposal of components, technology refresh items, and the total system at the end of their service life.
- Minimize the variety and quantity of consumable materials and packaging required to maintain and repair the system and subsystem. Plan for reuse, recycling, and disposal of consumable and packaging materials in the testing and operational training environments.
- Ensure that all acquisition programs that involve placing sound in the marine environment include required RDT&E efforts to fully define system impacts on marine mammals and develop information required to ensure that the system can be deployed in full compliance with the Marine Mammal Protection Act and Endangered Species Act.
- Design propulsion and power generation systems to characterize and minimize gaseous and particulate emissions and near- and far-field noise levels, avoiding any increases as compared to existing systems.

- Design ordnance systems using the latest environmentally friendly and sensitive technologies to the maximum extent possible. Minimize the use of energetic and explosive materials to reduce the probability and the consequences of mishap and to optimize the trade-off of munitions reliability against unexploded ordnance liability.
- Minimize to the greatest extent possible system requirements for contaminants of emerging concern in the development, manufacture, and sustainment of new systems and platforms. In determining what constitutes a contaminant of emerging concern, acquisition programs should pay careful attention to impending or future regulatory actions and health risk information in sources including, but not limited to:
 - o Safe Drinking Water Act (SDWA) Contaminant Candidate List (CCL)
 - o EPA's Integrated Risk Information System (IRIS)
 - o EPA Region 3 and Region 9 Toxicity Factors
 - o California EPA Toxicity Criteria Database and Chemicals Known to Cause Cancer or Reproductive Toxicity (Proposition 65)
 - o Agency for Toxic Substances and Disease Registry (ATSDR) Priority List of Hazardous Substances
 - o OSHA and the Stockholm Convention on Persistent Organic Pollutants

Examples of chemicals of emerging concern include: perchlorate, trichloroethylene (TCE), naphthalene, 1,4-dioxane, nitrosodimethylamine (NDMA), phthalates, hexavalent chromium and 1,2,3-trichloropropane.

- Design systems that minimize environmental readiness total ownership costs over the system life cycle, particularly during the sustainment phase.
- Use a risk assessment methodology (MIL-STD-882D or equivalent) to fully identify, manage, and mitigate to an acceptable level the system's life cycle environmental risks for eliminating/minimizing potential impacts to mission encumbrances.
- Ensure compliance with the DoD green procurement program in accordance with the Deputy Assistant Secretary of the Navy (Acquisition Management)'s memorandum of 22 Nov 04.